



SuMeWa|ARSENIC

Our Guarantee for Safe Water in Arsenic Prone Areas

Description

SuMeWa|ARSENIC is an innovative module for the removal of arsenic from contaminated water sources. This unit works as an add-on to the existing SuMeWa|SYSTEM family and largely extends their field of operation. SuMeWa|ARSENIC also removes iron, manganese and hydrogen sulfide for the supply of crystal clear and great tasting water. With the inline production of residual disinfectant all pathogens will be fully removed.

The advantages at a glance

- Safe removal of
 - Arsenic (>90%)
 - Iron (99%) / Manganese (>95%)
 - Pathogens (>5 log units, or >99.999%)
 - Hydrogen sulfide
- Residual disinfection
- No addition of chemicals required

- No exchange of filtration media required
- Maintenance free and solar powered
- Marginal operation costs
- Automatic backwash and inline electrolytic media regeneration with redox buffer assurance.
- Online monitoring through GSM/3G/WIFI

How it works

Dissolved arsenic and along with that dissolved iron will be oxidized by inline produced oxidants. The arsenic will then be adsorbed on the simultaneously precipitated iron(III)-hydroxide surfaces. While passing the filter the particles are safely retained and removed from the water. In frequent intervals the filter media is automatically backwashed assuring long term operation. Surplus produced oxidant will retain the redox buffer of the media and safely disinfect the water.

Technical data

Maximum raw water contamination

| | |
|----------------------------|-----------------------------|
| Arsenic – Iron – Manganese | 400 µg/L – 15mg/L – 5 mg/L |
| Ammonium | 1 mg/L |
| Hardness | 350 mg/L CaCO ₃ |
| Hydrogen sulfide | 5 mg/L |
| pH range | 6.2 – 8.0 |
| Capacity | Up to 5.000 Liters per day* |

* A raw water analysis for performance evaluation is required. SuMeWa|ARSENIC does not reduce the TDS of the water.

About AUTARCON

We stand for safe and clean drinking water. As specialists in decentralized water supply our expertise ranges from basic disinfection to complete solar driven drinking water treatment. The base for that is our SuMeWa|SYSTEM technology. With its different modules SAFE, TURB, IRON, and ARSENIC we offer a product portfolio that allows individual response to the demands of our customers. SuMeWa|SYSTEM safely treats water in hospitals, schools and villages – all around the globe.



watch our movie

AUTARCON GmbH

Franz-Ulrich-Str. 18 f
34117 Kassel
Germany

Fon +49 (0)561 – 506 186 890
Fax +49 (0)561 – 506 186 899
www.autarcon.com
info@autarcon.com



Member of

German Water Partnership